APPROACH OF WARM

Overhauling Yachts to Have Them Ready in Time Will Begin Soon.

GREAT MASS OF DETAILS

As soon as the weather settles covers will be taken off thousands of yachts that since the close of last season have been protected snugly from wind and weather. It will need only a few days of warm sunshine to make the owners of these boats get busy. With many this work of fitting out is just as enjoyable.

may be necessary is to rub down with sandpaper and put on a new coat, but if the seams have opened these must be puttled. The best putty is made of whiting and white lead. If the paint is chipped or blistered it must be removed. This is done with the ordinary plumber's torch, which softens the paint so that a putty knife will remove it easily. To many the under body is the hardest part of the work. If the putty has dried or fallen out of the seams and the caulking shows, it is pretty good these boats get busy. With many this work of fitting out is just as enjoyable as the sailing or motoring later on. In the big yards where many of the best yachts are kept work already has been started under cover of sheds, but it is on the water front from Jamaica Bay to Spuyten Duyyil where the most activity will be. There on Saturday afternoons and Sundays and later, when the days are longer, in the early events of start and the carly events of the seams and the same caulking must be done to make a dry boat. This work of the new express class will start. It has been arranged that cruisers may choose to start at any time between noon and 6 P. M. on June 9, and the skippers of those boats will do some careful figuring to determine how they can get the better of the tide. It will be high water at Essington at 6:32 o'clock on the morning of the race.

the decks and interiors.

H. C. Brokaw, principal of the Motor Boat School of the West Side Y. M. C. A., gave some ideas last week on how to overhaul a motor boat properly. He said: "The spring overhauling of a motorboat is no inconsiderable task for a novice. The old timer and particularly the man who started in a sail yacht, will not have so much irouble. The first thing necessary is to get started early, and then, if there are stormy week ends to delay one, there started early, and then, if there are stormy week ends to delay one, there still will be ample time to get ready. The wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the contact of the wise man starts at the very ttop of the contact of the wise man starts at the very ttop of the contact of the wise man starts at the very ttop of the wise man starts at the very ttop of the contact of the wise man starts at the very ttop of the contact of the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the wise man starts at the very ttop of the very ttop of the wise man starts at the very ttop of the very ttop of the wise man starts at the deck at the the the ear the dephat at the deck at the the out the saludate the very tup of the very ttop of the very time the very tup of the very time the deck at the the deck at the part

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PPROACH OF WARM

It may be necessary to scrape off the old varnish and bleach the woodwork. A varnish remover will save lots of work. If the wood is discolored oxalic acid will restore the color, but care must be taken to stop the bleaching process by the use of vinegar. Then a thin coat of shellac or varnish should be applied before there is any chance of the wood being wet again.

being wet again.
"Bright decks need considerable attention. They must be scraped or rubbed down, the seams should be filled with marine give and then a thick coat of varnish should be put on.

"The next thing to be looked after is the full. If the paint on the topsides is in fairly good candition, all that may be necessary is to rub down with sandpaper and put on a new cost, but

is lots of room it is wiser to take stormy week ends to delay one, there stormy determined to greate, the deal of the boat. Every bit of grease, gum and dirt should be washed off with gasolene and scraped off if necessary. If the enamel is badly chipped it is better to remove it entirely and remove and if there are cracks and seams to putty or patch them, for there is nothed better to remove it entirely and remove and if there are cracks and seams to putty or patch them, for there is nothed to eathly took examinations to qualify as gum and dirt should be washed off with gasolene and scraped off if necessary. If the enamel is badly chipped it is better to remove it entirely and removes a successfully. Morris Bellaknap, Dr. Eugene Swayne, William o'Donnell and Richard Young passed with 100 per cent. The Delaware division of the squadron mow will be organized and rings and grooves thoroughly cleaned. A careful examination should be the made of every wearing surface. The crack and search of the United States Power Squadron of the United States Power rank shaft bearings may On most engines a very slight wear may be taken up by removing the shims, but if necessary the bearings should be rebabbitted, or in case of solid bear-ings replaced. The connecting rods should not have any play either at the wrist pin or at the crank shaft. While the cylinders are off the top should be carefully examined for carbon, which must be carefully scraped out or burned with oxygen. If the engine which must be carefully scraped or burned with oxygen. If the engine is of the four cycle variety the valves may need regrinding. The mechanism of the valves should be carefully cleaned and adjusted, so that the stees

"Tile waterjackets should be examined to see that they are not clogged with rust or dirt, and the pump should be thoroughly cleaned. If it is a plunger pump it will need repacking. The clutch or reverse gear must be thoroughly cleansed and in reassembling the state of the clutch of the gear use the grease or oil the gas good as new, she has 42 the gear use the grease or oil the gas good as new, she has 42 the gear use the grease or oil the great could be placed, if contract could be placed, \$200,000; price a small fract that the new \$27,500 addition to get cuch joint tight. The proper to engine together care must be taken to get cuch joint tight. The proper to gasket is necessary for every joint, would eith her; mate and chief entire the case must be absolutely air tight. Attached and Great Lakes waters. The proper in the baseball corner of the field has necessitated the laying out of a new diamond. This is being made to the concrete stadium is being made to the parison so small that in a very short time the public would be out of petrol allowed. This is being done at the extimated the public would be out of petrol allowed. This is being done at the extimated the public would be out of petrol allowed. This is being done at the extimated the public would be out of petrol allowed. This is being made to the concrete stadium is being made to the public would be out of particular to the concrete sta

will be neither loose and rattle, no too tight and not work freely.

EXPRESS CRUISERS MAY MEET IN RACE

Overfalls Lightship Event on June 9 and 10.

The Overfalls Lightship race of the Yachtsmen's Club of Philadelphia, which this year will be held under the auspices of the Riverside Yacht Club, is scheduled for June 9 and 10. The distance from the club station at Essington to the lightship, which is off Cape Henland Philadelphia, which is seven the club station and the property of the point in the present rise of gasolene level. to the lightship, which is on Cape rela-lopen, is seventy-seven nautical miles. This will be one of the first of the long distance events for cruising motor boats, in which it is expected several of the new express class will start. It

sternoons and Sundays and later, were the days are longer, in the early were longer, in the early were longer, in the early were longer, in the seams that need reputying and then apply the putty, working and then apply the putty, working and every houlding motors and heir friends will be busy scraping. Meeding, painting, cleaning and overhaulding motors and paint. These should be rather than any other than any other than any other part of all mineral oils in 1915 was only 5 per cent more than in 1914; and the seams where the forement figures prove that the exposed to the statement figures prove that the exposed to the statement figures prove that the seams where the forement figures prove that the warring of the part of all mineral oils in 1915 was only 5 per cent more than in 1914; and the seams where the forement figures prove that the seams that need reputying and then apply the putty, working and then apply and only the first of the Government and its experts for relability. We eligible to the statement that the war land motor years and on motor years and their from every gasolone difficulty. Very subject to the statement and its experts for relability to the light of the putty, working and then apply putty will be statement that the war land motor years and and motor years and motor years and motor years and their environments and

twelve. The owners expect to start the racing season on Decoration Day. the racing season on Decoration Day.
The new boats building are for Miss
Mary White, Miss Eleanor McNulty,
Frank Sprow and Harry W. Leeds.

The vondered if this is true. Will you not also tell me the difference between assolene (our standard gas') and petrol, shell and crown spirits and Pratt's spirits, as the English never seem to speak

Paul Zieroid of Atlantic City is build-ing a V bottom cruiser, which is to be driven by a 30 horse-power Wisconsin motor turning 800 revolutions a minute

LEHIGH TEAMS GET OUTDOORS.

Little Work Before First Game. SOUTH BETHLEHEM, Pa., April 1 .-

There is every expectation that within the next week outdoor athletics at Le-

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EXPERT TELLS REAL **GASOLENE STORY**

Several May Participate in He Says the High Point in Price of Fuel Has Been Reached.

DISTANCE IS 77 MILES THE ENGLISH SITUATION

"I venture to send you a clipping from an English weekly, the Observer, of March 5, in which the statement is made

Four sailing boats are to be added that an American gallon of petrol is the fleet of the Atlantic City Yacht smaller than an English gallon of much These will increase the class to poorer quality.

The owners expect to start "I wondered if this is true. Will you

of 'gasolene'?"

The typical English article the correspondent refers to follows:
"The Asiatic Petroleum Company, being able only to supply about a third of the normal consumption of shell and

rown spirits by the public, it follows crown spirits by the public, it follows that the balance of civilian requirements in this connection has to be made good by the other companies, of which by far the chief is the Anglo-American Oil Company, venders of Pratt's spirit, who have to purchase their supplies from the order of the control of the about four different refiners in America. If those supplies were to fail us the other firms in the business are by com-

sure that they are airtight. Otherwise there is a loss of compression and consequently of power. I have taken it for granted that the man who attempts to take down an engine has some mechanical gumption. If he hasn't he had better hire a methanic at once. When

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TEACHING THE OWNER TO KNOW HIS AUTOMOBILE

Being the Fifth of a Series of Practical Articles by

feature. Likewise, it is quite complicated. To many operators the arc at the spark plug is unknown as to source. We all know that the motor will not run without the spark, but few understand how it is created for the purpose in which it is created for the purpose in the solution in the course in the current in the current in the current in the current in the secondary wire. The amount of charge it contains. It is the current in the

miles. point in the present rise of gasolene prices has been reached. In elaborating on this cheering message to motorists on this cheering message to motorists. The ignition system has commanded the automobile first made its appearance. It is pretty generally understood that the oil refiners are not likely, under any excuse whatever, to improve the automobile first made its appearance. It is pretty generally understood that the market will be downward instead of upward. As to these sensational reports, it ill becomes Government officials to the Government and its experts for reports. The automobile industry looks to the Government and its experts for reports. The automobile industry looks to the Government and its experts for reports. The automobile industry looks to the Government and its experts for reports. The automobile industry looks to the Government and its experts for reports. The automobile industry looks to the Government and its experts for reports. The automobile industry looks to the Government and its experts for reports. The automobile industry looks to the Government figures prove that the export of all mineral oils in 1915 was only 5 per cent more than in 1914; and so far as gasolene is concerned, there figures show ownly 112,000,000 gallons exported in 1915, against 120,000 gallons exported

induction coil to produce proper ignition.

Probably the dry cell battery was the first type used as a source of current. The dry cell is made up of a zinc shell, carbon centrepiece and an electrolyte.

B-Positive or carbon element.

E-Eight dry cells connected in series mul

I.—Insulating base.
N—North pole of magnete.

way thread is carried on a spool and is driven by the engine at a speed so timed as to deliver current at the spark plug when needed.

Before progressing further let us re-vert to sketch "M," which shows a soft iron core wrapped with two kinds of wire, namely, primary and secondary.

If a battery current should be passed through primary wire "P" and the ciran Expert on the Subject of the

Car and Its Operation.

By WILLIAM H. STEWART. JR.,
Pres. Stewart Automobile School.

The electric system of the auto
The electric system of the auto
The stewart system of the system.

The stewart system of the system of the starting, lighting and ignition system.

The stewart system of the system of the system of the solution in through primary wire "P" and the circuit rapidly interrupted, an induced current would be set up in secondary wire "O," even though each is insulated from the other. Especially is this noticeable if a number of turns of wire are wrapped about a soft iron core, such as shown at "Q." A magnetic field is set up about the wire "P" which, in turn, creates an induced current in "O."

The stewart system of the system of the solution in through primary wire "P" and the circuit rapidly interrupted, an induced current would be set up in secondary wire "O," even though each is insulated from the other. Especially is this noticeable if a number of turns of wire are wrapped about a soft iron core, such as shown at "Q." A magnetic field is set up about the wire "P" which, in turn, creates an induced current in "O."

The stewart system of the such system of the solution in the recurrent passing through primary wire "P" and the circuit rapidly interrupted, an induced current would be set up in secondary wire "O." even though each is insulated from the other. Especially is this noticeable if a number of turns of wire are wrapped about a soft iron core, such as shown at "Q." A magnetic field is set up about the wire "P" which, in turn, creates an induced current in "O." if the current passing through primary iron with the set up about the wire "P" which, in the current passing through primary iron wire are upon the current produced by the set up about the wire "P" which, in the current passing through primary iron wire are upon the curre

> mary, consisting of heavy insulated wire, is wrapped about spool "I" in a number of layers. Over and above this primary is wrapped a great number of turns of fine insulated secondary wire, such as shown at armature in figure 5. Soft iron offers very little resistance to the magnetic lines of force, so that when armature is in position, as shown at figure 1, the lines of force are passing through the soft iron of the armature. In this manner a very dense magnetic in this manner a very dense magnetic field is set up. At figure 2 rotating clockwise, the heads of armature are shown as beginning to leave the pole pieces and distort to a degree the lines of force. During this time an intense field is built up about the wires. At figure 3 the armature heads are shown as about to leave the pole pieces and at figure 4 the armature head is shown just leaving and thus breaking the mag-netic path between the field poles. At this instant magnetism is quickly discharged from the armature, and an instantaneous generation of electrical pressure takes place in the armature

flowing into opposite head of the arma-

@ [] @

-Soft tron core

U-Circuit breaker rollers.

V-Secondary distributer segments.

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